Title (en)

Image heating device and pressing roller for use with the image heating device

Title (de)

Bilderwärmungsvorrichtung und Andruckwalze zur Verwendung mit der Bilderwärmungsvorrichtung

Title (fr)

Dispositif de chauffage d'images et cylindre presseur à utiliser avec le dispositif de chauffage d'images

Publication

EP 2410385 B1 20190306 (EN)

Application

EP 11174824 A 20110721

Priority

JP 2010166577 A 20100724

Abstract (en)

[origin: EP2410385A1] An image heating device for heating a toner image while nip-conveying a recording material, in a nip, on which the toner image is carried, includes a heating member; and a pressing roller, including an elastic layer, for forming the nip in contact with the heating member. The elastic layer of the pressing roller includes a thermosetting silicon rubber containing a thermal conductive filler. The thermosetting silicon rubber includes pore portions formed with resin microballoons and a pore connecting portion for connecting the pore portions. The elastic layer has a thermal conductivity of 0.15 W/mK to 0.5 W/mK.

IPC 8 full level

G03G 15/20 (2006.01)

CPC (source: EP US)

G03G 15/2057 (2013.01 - EP US); **G03G 15/206** (2013.01 - US)

Cited by

CN106662834A; EP3171226A4; EP2947518A4

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2410385 A1 20120125; **EP 2410385 B1 20190306**; CN 102346415 A 20120208; CN 102346415 B 20140709; JP 2012027281 A 20120209; JP 5610894 B2 20141022; US 2012020709 A1 20120126; US 9110416 B2 20150818

DOCDB simple family (application)

EP 11174824 A 20110721; CN 201110205608 A 20110722; JP 2010166577 A 20100724; US 201113186546 A 20110720